

08TH
**EURO
ELSO**
BARCELONA

10-13 • APRIL

2019



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together

Final program

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Table of Contents

Words of Welcome.....	4
Floor Plan.....	5
Scientific Program Overview	6
Pre-Congress Wednesday, 10 April 2019	10
Pre-Congress Thursday, 11 April 2019	12
Main Program Thursday, 11 April 2019	14
Main Program Friday, 12 April 2019	20
Main Program Saturday, 13 April 2019	26
Educational Corners	29
Invited Faculty	32
Information for Speakers.....	34
Poster Sessions	34
General Congress Information	36
CME Credits	37
Good to know	38
Industry / Exhibition.....	40
Corporate Sessions / Training Units	43

Words of Welcome

Dear colleagues and friends,

It is my great pleasure to welcome you to our 8th EuroELSO Congress in Barcelona, Spain.

The EuroELSO scientific committee has prepared a program covering all aspects of extracorporeal life support therapies. Intensivists, cardiologists, cardiac surgeons, pediatric and neonatology specialists, perfusionists and ICU nurses will gather to share their clinical experience and discuss new technologies and new directions in research. All participants will have a broad opportunity to discuss the impact of new technologies on health care systems and new directions in research.

Preconference sessions will feature in depth discussions on neonatal and pediatric ECMO. Simulation workshops will also be available, including a wet-lab for cannulation in live animals.

The main congress will provide several core parallel educational tracks focused on adult, pediatric and perfusion/nursing topics related to extracorporeal therapies.

Enjoy the meeting, present your experiences, ask your questions, and be a part of the fantastic ECMO community!

Welcome to the beautiful city of Barcelona for EuroELSO 2019!



Alain Combes
President of EuroELSO

Organizer EuroELSO Associates



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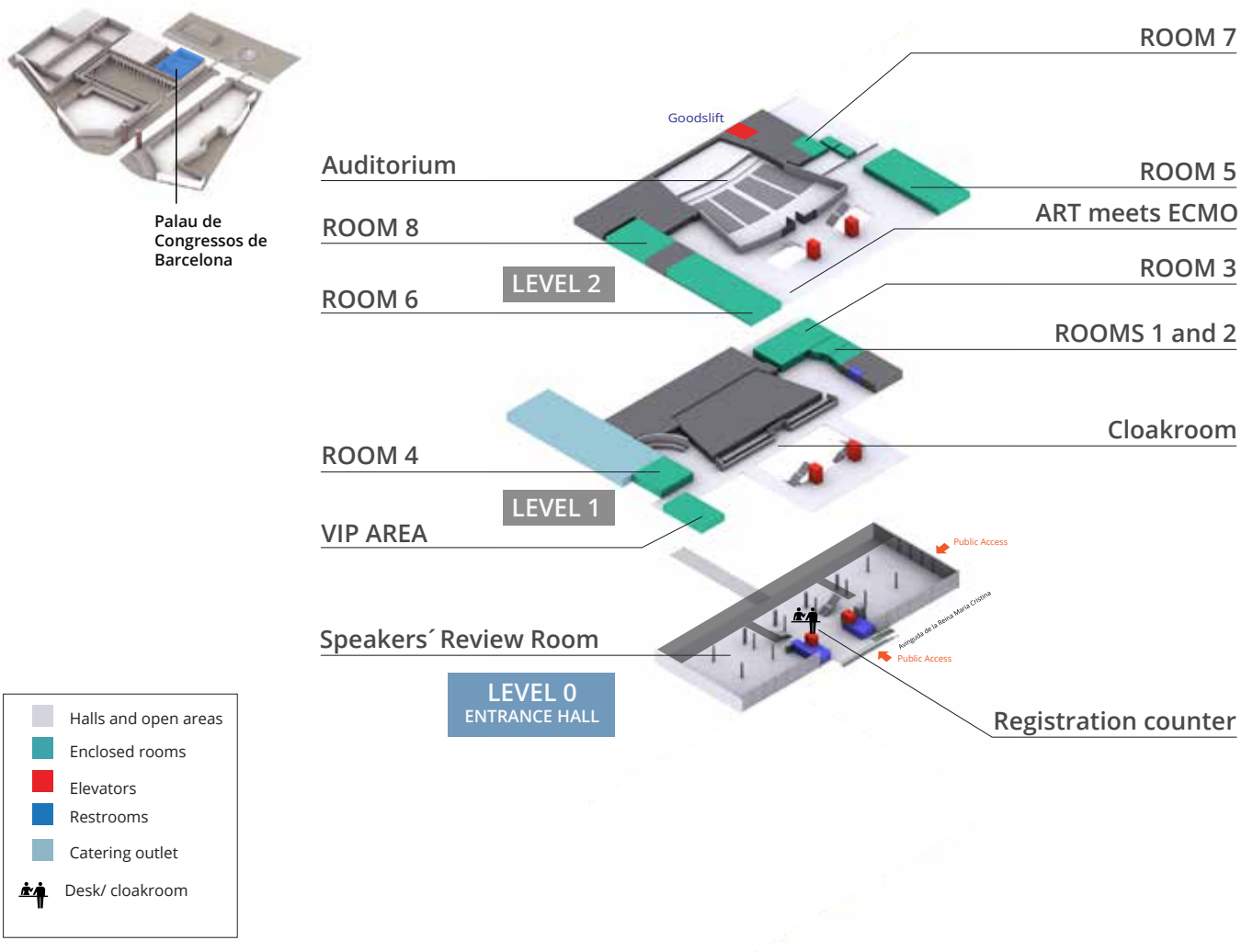
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Floor Plan













PALAU DE CONGRESSOS DE BARCELONA



Scientific Program Overview

Pre-Congress | Wednesday, 10 April 2019

	Auditorium	Room 6	Room 5	Room 3	Room 4
8:00					Neonatal and pediatric Respiratory Failure Management: From non invasive mechanical ventilation to ECMO (Not included in the Pre-Congress registration)
13:00		My first steps with VA-ECMO	Back to basics: Physiology	ECMO physiology - Simulation for nurses in Spanish language I	
13:30					
14:00		My first steps with VV-ECMO	Challenges in cannulation	ECMO physiology - Simulation for nurses in Spanish language II	
14:30					
15:00	Coffee break				
15:30		E-CPR - the basics	Re-thinking coagulation and monitoring - the devil is in the detail	ECMO physiology - Simulation for nurses in Spanish language III	
16:00					
16:30		Promising monitoring tools on ECMO	Quality improvement on ECMO: Doing it right!	ECMO physiology - Simulation for nurses in Spanish language IV	
17:00					
17:30					
18:00					
18:30					
19:00					

 Plenary Sessions	 Industry
 Adult Sessions	 Poster Sessions
 Pediatric Sessions	 Educational Corners
 Nurses	 Social Event
 Ceremony	 Teach Program
 Perfusionists	 Lab Sessions

Scientific Program Overview

Pre-Congress | Thursday, 11 April 2019

	Auditorium	Room 6	Room 5	Room 3	Room 4
08:30					"Hands on" during mechanical ventilation and ECMO (Not included in the Pre-Congress registration)
09:00		VA ECMO – the basics of clinical management	Cardiac ECMO	VV-ECMO for beginners	
09:30					
10:00		Improving outcome on VV-ECMO	Neurological complications on ECMO	VA-ECMO for beginners	
10:30	Coffee break				
11:00					
11:30		Acute respiratory failure in specific populations	How to approach complex referrals? When to say no?	Beyond two cannulas...	
12:00					
12:30					

Main Program | Thursday, 11 April 2019

	Auditorium	Room 6	Room 5	Room 3	Room 4	Poster Exhibition Area
12:30						
13:00		Industry Sponsored Symposium		Industry Sponsored Workshop		
13:30						
14:00	Opening Ceremony					
14:30	ECMO for ARDS					
15:00						
15:30						
16:00	Coffee break					
16:30	ECMO for cardiogenic shock					
17:00						
17:30	ECMO for refractory cardiac arrest					
18:00						
18:30						Moderated Poster Session
19:00						
19:30	Networking Reception					
20:00						

Scientific Program Overview













Main Program | Friday, 12 April 2019

	Auditorium	Room 6	Room 5	Room 3	Room 4	Room 1 Educational Corner	Room 2 Educational Corner	Room 7 Educational Corner	Room VIP Educational Corner	Poster Exhibition Area	
08:00			Call for pediatrics cases	Industry Sponsored Symposium	The role of the perfusionist in ICU		Hemodynamics workshop with Harvi				
08:30											
09:00	Cardiogenic shock after acute myocardial infarction	Mechanical ventilation on ECMO	State of the art: ECMO: Where are we now?	When ECMO is not enough	ECMO 3.0	ECLS in OHCA and IHCA		Hemodynamics workshop with Harvi		Trouble-shooting on paediatric ECMO	
09:30											
10:00											
10:30	Coffee break										
11:00	Ethic in ECMO	VA ECMO – after cardiac surgery	ECMO for myocardial failure	ECMO complications: Interactive session	Physics of the ECMO	ECLS in OHCA and IHCA	Hemodynamics workshop with Harvi	The Thrills and Spills of delivering haemofiltration and plasma exchange...	Trouble-shooting on paediatric ECMO		
11:30											
12:00		Industry Sponsored Symposium	Industry Sponsored Symposium	Industry Sponsored Symposium	Lunch break					Meet the Poster Authors	
12:30											
13:00											
13:30						ECLS in OHCA and IHCA	Circuit Factors		Trouble-shooting on paediatric ECMO		
14:00	VV-ECMO: Future challenges	Adjuvant cardiac mechanical support	Pediatric respiratory ECMO	We need nurses ECMO specialist -Pro/Con	Latest from the lab...	ECLS in OHCA and IHCA	Circuit Factors		Trouble-shooting on paediatric ECMO		
14:30						ECLS in OHCA and IHCA	Circuit Factors	The Thrills and Spills of delivering haemofiltration and plasma exchange...			
15:00	Improving outcome on VA-ECMO	Neurological complications on ECMO	Multidisciplinary education on ECMO	Ethic in ECMO	How to reduce ECMO-induced inflammation?	ECLS in OHCA and IHCA	Circuit Factors	The Thrills and Spills of delivering haemofiltration and plasma exchange...			
15:30	Coffee break										
16:00	ECMO – challenging indications	VA-ECMO drawback	ECMO organization and care delivery	Bedside care	From computation of flow dynamics to the animal lab		Circuit Factors		Trouble-shooting on paediatric ECMO		
16:30							Circuit Factors		Trouble-shooting on paediatric ECMO		
17:00	ECMO for hematological patients	Coagulation on ECMO	Mobile ECMO	Staffing models	VA ECMO and LV distension		Circuit Factors				
17:30							Circuit Factors				
18:00											
20:00	Congress Dinner at Xalet de Montjuic. Tickets are available at the registration counter on a first come - first served basis.										

Scientific Program Overview

Main Program | Saturday, 13 April 2019

	Auditorium	Room 6	Room 5	Room 3	Room 4	Room 1 Educational Corner	Room 2 Educational Corner	Room 7 Educational Corner
08:00		Industry Sponsored Symposium	Complications on ECMO - let's focus on anticipation and prevention					
08:30								
09:00	ECCO2R in 2019	What it takes on top of technical skills - ethical decision making!	Cardiac ECMO			ECLS in OHCA and IHCA		The Thrills and Spills of delivering haemofiltration and plasma exchange...
09:30								
10:00	Coffee break							
10:30	Anticoagulation on ECMO	The top ranked adults abstract selection	The top ranked PED abstract selection					The Thrills and Spills of delivering haemofiltration and plasma exchange...
11:00								
11:30	Additional procedures on ECMO	ECMO - in exceptional situations	ECMO: Looking to the future					
12:00								
12:30	Closing Ceremony, Young Investigator Awards and invitation next edition							
13:00								

	Plenary Sessions		Industry
	Adult Sessions		Poster Sessions
	Pediatric Sessions		Educational Corners
	Nurses		Social Event
	Ceremony		Teach Program
	Perfusionists		Lab Sessions

08:00 - 18:50
Room 4

Neonatal and pediatric Respiratory Failure Management: From non invasive mechanical ventilation to ECMO (Not included in the Pre-Congress registration)

Moderation: Matteo Di Nardo, Italy

For workshop details please check the website at www.euroelso-congress.com/euroelso-espnic-initiative

13:00 - 14:00
Educational Corner program, please see details at page 29

13:00 - 14:00
Room 6

My first steps with VA-ECMO

Moderation: Martin Balik, Czech Republic

When and for whom?

Jan Bělohávek, Czech Republic

Which cannula? Which site?

Felix Hennig, Germany

How to manage bleeding issues?

Thomas Staudinger, Austria

13:00 - 14:00
Room 5

Back to basics: Physiology

Moderation: Joan Balcells, Spain;
Aparna Hoskote, United Kingdom

ECMO physiology and oxygen delivery

Robert Bartlett, United States

Endothelial function on ECMO

Marco Ranucci, Italy

Managing transition from shock to full flow ECMO

Susana Segura, Spain

14:00 - 15:00
Educational Corner program, please see details at page 29

14:00 - 15:00
Room 6

My first steps with VV-ECMO

Moderation: Peter Schellongowski, Austria

Oxygenation and decarboxylation determinants

Christian Karagiannidis, Germany

Indications and patients selection

Jordi Riera, Spain

My patients remains hypoxemic on ECMO - diagnostic approach

Matthieu Schmidt, France

14:00 - 15:00
Room 5

Challenges in cannulation

Moderation: Robert Bartlett, United States;
Aparna Hoskote, United Kingdom

VV-ECMO cannulation in neonates

Carl Davis, United Kingdom

Cannulation configurations across different weight ranges

Chris Harvey, United Kingdom

Bedside echo for ECMO decision making

Lars Mikael Broman, Sweden

15:00 - 15:30
Coffee break

15:30 - 16:30
Educational Corner program, please see details at page 29

15:30 - 16:30
Room 6

E-CPR – the basics

Moderation: Jan Bělohávek, Czech Republic

The ideal patient: Think twice to get the indication right!

Kiran Shekar, Australia

The best organization: Refined logistics and cannulation techniques

Simon Finney, United Kingdom

Brain death and organ donation on ECMO

Nicholas Barrett, United Kingdom

 **15:30 - 16:30**
Room 5

Re-thinking coagulation and monitoring - the devil is in the detail

Moderation: Nathalie Rintoul, United States;
Lakshmi Raman, United States

Anticoagulation: Age-related physiological variation

Gail Annich, Canada

Laboratory versus point of care testing - best practice?

Joan Balcells, Spain

New agents to prevent thrombosis or bleeding

Uri Pollak, Israel

16:30 - 17:30
Educational Corner program,
please see details at page 29

 **16:30 - 17:30**
Room 6

Promising monitoring tools on ECMO

Moderation: Matthieu Schmidt, France

TEG/ROTEG

Albert Ariza, Spain

Microcirculation

Dinis Reis Miranda, Netherlands

Thoracic imaging

Roberto Roncon-Albuquerque, Portugal

 **16:30 - 17:30**
Room 5

Quality improvement on ECMO: Doing it right!

Moderation: Susana Segura, Spain; Joanne Starr, United States

Surveillance and treatment of infection on ECMO

Pierre-Louis Leger, France

Nutrition on ECMO

Maura O'Callaghan, United Kingdom

Sedation on ECMO

Pavla Pokorna, Czech Republic

Pre-Congress | Thursday, 11 April 2019

08:30 - 09:30
Room 6

VA ECMO – the basics of clinical management

Moderation: Dinis Reis Miranda, Netherlands

Bedside monitoring: The clinical key parameters in VA ECMO

Alessandro Sionis, Spain

Echocardiography in VA ECMO: Much more than a daily ritual

Dirk Donker, Netherlands

Anticoagulation for VA ECMO in cardiovascular disease: complexity made simple

Jonathan Millar, Ireland

08:30 - 09:30
Room 5

Cardiac ECMO

Moderation: Mirjana Cvetkovic, United Kingdom;
Sylvia Belda, Spain

Myocarditis and ECMO

Jonathan Smith, United Kingdom

ECMO in single ventricle patients

Tim Jones, United Kingdom

Role of cardiac catheterization on ECMO

Aparna Hoskote, United Kingdom

08:30 - 09:30
Room 3

VV-ECMO for beginners (Translation to Spanish provided)

Moderation: Sabine Valera, France

Cannulation and site

Jordi Riera, Spain

Indications and results

Alain Vuylsteke, United Kingdom

Nursing monitoring and tips

Chirine Mossadegh, France

Nursing monitoring and tips in children

Maura O'Callaghan, United Kingdom

08:30 - 12:30
Room 4

“Hands on” during mechanical ventilation and ECMO (Not included in the Pre-Congress registration)

Moderation: Matteo Di Nardo, Italy;
Joan Balcells, Spain

For workshop details please check the website at www.euroelso-congress.com/euroelso-espnic-initiative

09:30 - 10:30
Room 6

Improving outcome on VV-ECMO

Moderation: Nicholas Barrett, United Kingdom

Mobile inter-hospital transport

Lars Mikael Broman, Sweden

Right ventricular failure management

Kenneth Palmer, Sweden

Drugs pharmacokinetics on ECMO

Nicholas Barrett, United Kingdom

09:30 - 10:30
Room 5

Neurological complications on ECMO

Moderation: Chris Harvey, United Kingdom;
Uri Pollak, Israel

Incidence and risk factors

Francisco Abecasis, Portugal

Neuromonitoring: Cerebral autoregulation

Lakshmi Raman, United States

Engaging family in follow-up: Parental perceptions

Jo Wray, United Kingdom

09:30 - 10:30
Room 3

VA-ECMO for beginners (Translation to Spanish provided)

Moderation: Jo-Anne Fowles, United Kingdom

The basic principles

Konstanty Szuldrzynski, Poland

Indications and timing

Alain Combes, France

Main complications

Alicia Pastor, Spain

session color codes: please see page 9

Pre-Congress | Thursday, 11 April 2019

10:30 - 11:00
Coffee break

 **11:00 - 12:00**
Room 6

Acute respiratory failure in specific populations

Moderation: Christian Karagiannidis, Germany

Which population for ECCO2R?

Christian Karagiannidis, Germany

ECMO for immunocompromised patients

Peter Schellongowski, Austria

ECMO in obese patients

Antonio Arcadipane, Italy

 **11:00 - 12:00**
Room 5

How to approach complex referrals?

When to say no?

Moderation: Gail Annich, Canada;
Lars Mikael Broman, Sweden

Multi-morbidity syndromic patient

Nathalie Rintoul, United States

Post liver transplant, bone marrow transplant

Matteo Di Nardo, Italy

When to say no: Overwhelming sepsis

Thomas Brogan, United States

 **11:00 - 12:00**
Room 3

Beyond two cannulas... (Translation to Spanish provided)

Moderation: Chirine Mossadegh, France

RRT during ECMO: Practical aspects

Justyna Swol, Germany

Plasmapheresis on ECMO

Jo-Anne Fowles, United Kingdom

Infection prevention and diagnosis strategies

Sabine Valera, France

Main Program | Thursday, 11 April 2019

From 12:15

**Industry symposium and workshop,
please see page 43 for further details**

13:45 - 14:15

Auditorium

Opening Ceremony

Welcome note by the President
of the EuroELSO Alain Combes

Welcome note by the President
elect of the EuroELSO

Welcome note by the Local
Organizing Committee

14:15 - 15:45

Auditorium

ECMO for ARDS

Moderation: Thomas Mueller, Germany; Marco
Ranieri, Italy

**VV-ECMO in adults and pediatrics:
Year in review**

Simon Finney, United Kingdom

**EOLIA: What do we learn with
bayesian analysis?**

Alain Combes, France

What should be the next trial(s)?

Daniel Brodie, United States

**Integrating physiology and imaging
at the bedside**

Antonio Pesenti, Italy

My vision for ECMO in ARDS in 2050?

Giles Peek, United States

15:45 - 16:15

Coffee break in the exhibition area

16:15 - 17:15

Auditorium

ECMO for cardiogenic shock

Moderation: Albert Ariza, Spain;
Roberto Lorusso, Netherlands

**VA-ECMO in adults and pediatrics:
Year in review**

Thomas Mueller, Germany

**How to choose the best device in
the context of AMI?**

Tony Gershlick, United Kingdom

Why do we need RCT in cardiogenic shock?

Alain Combes, France

17:15 - 18:15

Auditorium

ECMO for refractory cardiac arrest

Moderation: Alain Vuylsteke, United Kingdom;
Thomas Brogan, United States

The latest about in-hospital cardiac arrest

Yih-Sharng Chen, Taiwan

**Pro/Con: The optimal site for E-CPR in
OHCA is... in the hospital**

Jan Bělohávek, Czech Republic

**Pro/Con: The optimal site for E-CPR in
OHCA is... on the scene**

Lionel Lamhaut, France

18:15 - 19:15

Poster Exhibition

Moderated Poster Sessions

OP-01

Adult Moderated Abstract Session Kiosk 1

Moderation: Jan Bělohávek, Czech Republic;
Brijesh Patel, United Kingdom

ECMO accidental decannulation

Sara Escalona-Rodriguez, Spain

**Veno-arterial extracorporeal membrane oxygenation
in post myocardial infarction ventricular septal
rupture: A systematic review**

Federica Jiritano, Netherlands

Five-year outcomes in ECMO patients

Nathalie Van Aerde, Belgium

**Undetectable arterial systemic air embolism during
VA ECMO, it could be a silent killer?**

Immacolata Romeo, Italy

**Left ventricular unloading strategies during ECLS
and their association with mortality, a systematic
review and meta-analysis**

Christiaan Lucas Meuwese, Netherlands

**Regional cerebral oxygen saturation associates
with outcome during veno-arterial extracorporeal
membrane oxygenation**

Ana Delgado, United Kingdom

**The global perspective of an organ donation
program following Maastricht II uncontrolled
cardiocirculatory death: Fifteen month
experience from an ECMO referral centre**

Gustavo Nobre de Jesus, Portugal

Main Program | Thursday, 11 April 2019

Incidence and outcome of patients developing HIT during extracorporeal membrane oxygenation

Matthias Lubnow, Germany

A single centre experience of a shock call system to support multidisciplinary decision making in cardiogenic shock

Cidalia Eusebio, United Kingdom

Awake patient, switch from ECMO to VAD circuit on continuous pump flow

Ignazio Condello, Italy

VA-ECMO in patients undergoing cardiac surgery with cardiac arrest followed by mechanical resuscitation and subsequent eCPR

Dejan Radakovic, Germany

OP-02

Adult Moderated Abstract Session Kiosk 2

Moderation: Simon Finney, United Kingdom;
Alain Combes, France

Extracorporeal membrane oxygenation for refractory anaphylactic shock: A case series report

Dai Quang Huynh, Vietnam

Hybrid ECMO is one of the strategies for patients with inadequate perfusion and high mortality

Kensuke Fujita, Japan

Implementation of a 24/7 extracorporeal life support service in a tertiary medical intensive care unit in the German capital

Bettina Otte, Germany

Anti-factor Xa assay correlates positively with Heparin dose in adult venoarterial extracorporeal membrane oxygenation

Yongnan Li, China

Extracorporeal membrane oxygenation and/or impella for cardiogenic shock: A systematic review and meta-analysis

Yongnan Li, China

Predictors of mortality in patients with streptococcal infection requiring extra-corporeal membrane oxygenation support

Shraddha Goyal, United Kingdom

Initial device implant for patients with INTERMACS profiles 1 and 2

Natallia Piatrovich, Belarus

Advanced mechanical circulatory support for post-cardiotomy cardiogenic shock: A five years outcome analysis

Paola Sastre, Spain

ECMO vs IABP in high risk percutaneous coronary interventions

Roman Kornelyuk, Russian Federation

OP-03

Adult Moderated Abstract Session Kiosk 3

Moderation: Dirk Donker, Netherlands;
Santiago Montero, Spain

Temporal trends of extracorporeal life support for postcardiotomy cardiogenic shock

Matteo Pozzi, France

Extracorporeal membrane oxygenation in pregnancy: Survival and predictors of mortality

Kollengode Ramanathan, Singapore

The clinical outcomes of VA ECMO for patients with AMI complicated by cardiac arrest due to left main coronary artery occlusion

Sung Jun Kim, South Korea

Predictors of successful weaning from veno-arterial extracorporeal membrane oxygenation support

Ju Yong Lim, South Korea

Neurological complications in adult ECMO patients - the experience of an Australian ECMO referral center

Jason Chapman, Australia

Meta-analysis to assess in-hospital and remote outcomes after ECMO implantation for refractory cardiogenic shock in heart transplantation centres as compared to non-transplant units

Mariusz Kowalewski, Poland

Main Program | Thursday, 11 April 2019

Limb ischemia and vascular complications following ECPR with routine distal perfusion catheter placement

Gregory Bittle, United States

IVIG administration in ECMO patients with suspected toxin-mediated shock

Marijke Peetermans, United Kingdom

Clinical experience of biventricular assist devices as a bridge to heart transplantation in adult

Vitalii Volkov, Russian Federation

Donnor in controlled asistolia (Mastrich III): Results of mobile multidisciplinary team

Maria Castilla, Spain

The challenges in brain death evaluations in patients supported on ECMO: A plea for expert consensus

Michael Firstenberg, United States

Poznan Out-of-Hospital Cardiac Arrest (POHCA) study - the first Polish ECPR pilot trial protocol

Mateusz Puslecki, Poland

OP-04

Adult Moderated Abstract Session Kiosk 4

Moderation: Peter Schellongowski, Austria; Alain Vuylsteke, United Kingdom

Risk factors for iliopsoas hematoma in VV-ECMO patients: A single center study in Japan

Hayato Taniguchi, Japan

Complications during extracorporeal life support in trauma patients

Justyna Swol, Germany

Awake veno-venous extracorporeal membrane oxygenation: Does it improve survival?

Ilkun Park, South Korea

Correlations of BNP levels with fluid balance and hemodynamic parameters in patients with VV-ECMO

Sunghoon Park, South Korea

Sedation with alfentanil vs. fentanyl in patients receiving extracorporeal membrane oxygenation (ECMO): Outcomes from a single centre retrospective study

Mike Barker, United Kingdom

Antithrombin supplementation in an integrated protocol for anticoagulation management during VV ECMO: Impact on outcomes

Gennaro Martucci, Italy

Oxandrolone in patients on venovenous extracorporeal membrane oxygenation: A case series

Stacy Pelekhaty, United States

No anticoagulation and no mechanical ventilation during VV ECMO complicated by refractory pulmonary haemorrhage

Bryan Reidy, Ireland

Veno-venous extracorporeal membrane oxygenation for severe acute respiratory distress syndrome in east China: A retrospective cohort study

Songqiao Liu, China

Intrahospital transport of adults on extracorporeal membrane oxygenation: A Chinese regional referral center experience

Songqiao Liu, China

Extracorporeal cardiopulmonary resuscitation for in-hospital and out-of-hospital cardiac arrest, 12-year data

Mathias Allegaert, Belgium

OP-05

Adult Moderated Abstract Session Kiosk 5

Moderation: Jordi Riera, Spain; Matthieu Schmidt, France

Extracorporeal membrane oxygenation without systemic anticoagulation: Limited case-series in challenging conditions

Dario Fina, Netherlands

Extracorporeal membrane oxygenation without systemic anticoagulation: What we can learn from literature

Dario Fina, Netherlands

VV ECMO in complicated Malaria 3 cases report

Camilo Pizarro, Colombia

Colonization with multidrug-resistant Gram-negative bacteria during extracorporeal membrane oxygenation: Impact on patients outcome

Stefano De Falco, Italy

Comparison of complications in tracheostomy in patients with acute respiratory failure during and after venovenous extracorporeal membrane oxygenation support: A 10-year observational analysis

Christoph Fisser, Germany

Main Program | Thursday, 11 April 2019

Comparison of complications in percutaneous and surgical tracheostomy in patients with acute respiratory failure on veno-venous extracorporeal membrane oxygenation: A 10-year observational analysis

Christoph Fisser, Germany

Application of veno-venous ECMO in postpartum hemorrhage complicated by transfusion-related acute lung injury

Rungsun Bhurayanontachai, Thailand

Enteral nutrition in ECMO: Pilot study

Edward Jose Casanova-Gongora, Spain

Initial experience using a new single-site dual-lumen bicaval cannula for venovenous extracorporeal membrane oxygenation

Yuliya Tipograf, United States

Eligibility of patients with in-hospital cardiac arrest for extracorporeal cardiopulmonary resuscitation (ECPR) in a tertiary center

Eduard Argudo, Spain

Evaluation of liver function and their potential for transplantation in patients with cardiocirculatory arrest

Gustavo Nobre de Jesus, Portugal

OP-06

Adult Moderated Abstract Session Kiosk 6

Moderation: Nicholas Barrett, United Kingdom; Justyna Swol, Germany

Setting up an ELSO-based ECMO team in an adult ICU of a tertiary hospital

David Tellez, Spain

Implementation of a simulation-based ECMO/ECLS education program in an experienced center – how we do it in Zurich

Maximilian Halbe, Switzerland

Simplified ex vivo extracorporeal life support (ECLS) simulator

Justyna Swol, Germany

Six month roadmap for ECMO/Acute respiratory failure program deployment

Dianne McCallister, United States

Air transport in ECMO, program ECMO VAD experience

Camilo Pizarro, Colombia

In situ simulation training improves ECPR survival

Sean Scott, Australia

The clinical experience of emergency medical team-initiated inter-hospital transportation on extracorporeal membrane oxygenation

Xufeng Chen, China

12 years of inter-facility ECMO transport: Predictors for in-hospital mortality

Susan Leutloff, Germany

Outline and engineering of a novel simulation phantom providing integration of advanced life support and extracorporeal cardiopulmonary resuscitation-training scenarios for multiprofessional and interdisciplinary teams

Domagoj Damjanovic, Germany

The importance of simulation events for developing emergency protocols

John O'Neill, United Kingdom

Addressing the complexities of cross team sharing of information

Melanie Dineen, United Kingdom

ECMO transport in Perú: Initial experience

Belinda Gonzalez, Peru

Our way to centre of excellence

Mascha van Gijlswijk, Netherlands

Structuring an educational model for extracorporeal membrane oxygenation

Monika Tukacs, United States

OP-07

Pediatric Moderated Abstract Session Kiosk 7

Moderation: Malaika Mendonca, Switzerland; Nathalie Rintoul, United States

Times are changing: More than 30 years of neonatal ECMO (Extra Corporeal Membrane Oxygenation) in Mannheim: What did change?

Steffen Hien, Germany

Neurophysiological prognostication in venoarterial extracorporeal membrane oxygenation

Will McDevitt, United Kingdom

Neonatal hypoxic ischemic encephalopathy as comorbidity in neonatal respiratory disease: ELSO database analysis

Hitesh Sandhu, United States

Information needs of families of pediatric patients on extracorporeal membrane oxygenation (ECMO)

Alejandro Bosch Alcaraz, Spain

Cranial USS screening in paediatric ECMO - is there a need?

Eleanor Marshall, United Kingdom

Main Program | Thursday, 11 April 2019

The use of ECMO in children undergoing cardio-pulmonary resuscitation – when should we say no

Nicolae Cristian Bulescu, France

ECMO in infants with refractory hypoxemia due to acute respiratory distress syndrome controversial decision: Initial experience in INCA clinic - Peru

Belinda Gonzales, Peru

Development of validated checklists to evaluate clinical specialists in pediatric ECMO emergencies using Delphi method

Kamal Abulebda, United States

Outcomes of pediatric patients with acute respiratory failure supported with prolonged ECMO: An ELSO registry review

Oshri Zaulan, Canada

Barriers to neonatal veno-venous ECMO: A national survey

Elizabeth Boot, United Kingdom

The impact of venous arterial extracorporeal membrane oxygenation on lung condition in neonatal and pediatric patients

Olga Maltseva, Russian Federation

OP-08

Pediatric Moderated Abstract Session Kiosk 8

Moderation: Mark Davidson, United Kingdom; Peter Roeleveld, Netherlands; Susana Segura, Spain

Intensive care of the neonatal patients with congenital diaphragmatic hernia

Ivan Afukov, Russian Federation

Extracorporeal membrane oxygenation in newborns with omphalocele and pulmonary hypoplasia

Serafim Ovchinnikov, Russian Federation

Intraoperative extracorporeal membrane oxygenation in children with tracheal stenosis

Artem Kulaev, Russian Federation

Designing a paediatric extracorporeal life support transport service

Sue Burlton, United Kingdom

Accidental azygous cannulation for ECMO support in right diaphragmatic hernia

Cristina Carrasco Carrasco, Spain

Prevention of pressure injuries due to cannulae in pediatric patient on extracorporeal membrane oxygenation (ECMO)

Alejandro Bosch Alcaraz, Spain

High fidelity simulation in neonatal and paediatric ECMO: A safe and effective way to learn and train our team

Mar Reyne Vergeli, Spain

Reducing pressure sores by implementing a pressure sore prevention package in a paediatric ECMO centre

Jenny Budd, United Kingdom

Blood culture surveillance for paediatric ECMO patients : Do we need to do daily blood cultures from circuit ? PICU at Alder Hey children's hospital, Liverpool, UK

Shirley Nolan, United Kingdom

Increased soluble ST2 concentration in neonates with congenital diaphragmatic hernia and pulmonary hypertension receiving ECMO support

Lukas Schroeder, Germany

Postcardiotomy veno - arterial extracorporeal membrane oxygenation in children: A single centre experience over 25 years

Martina Sperkova, Czech Republic

OP-09

Perfusionist Moderated Abstract Session Kiosk 9

Moderation: Antonella Degani, Italy; Leen Vercaemst, Belgium

Comparative study on inlet pressure of centrifugal pumps for ECMO devices

Kenichi Suzuki, Japan

Clinical effect of mechanical circulatory support devices in neonates with congenital heart disease after cardiac surgery

Xindi Yu, China

Reducing time to extra corporeal membrane oxygenation during cardiopulmonary resuscitation

Sunimol Joseph, Ireland

CardioHelp ECMO system alarms: Friend or foe

Michael Firstenberg, United States

Sterility and oxygenator function of long-term preprimed ECMO-circuit - a pilot study

Mia Persson, Sweden

Extracorporeal membrane oxygenator therapy without anticoagulation: Transillumination as an early method in detection of clots in the system

David Tellez, Spain

Main Program | Thursday, 11 April 2019

Safe in-hospital transport of the ECMO patient

Beatriz Lozano González, Spain

The influence of two different precharging methods on the preflush time and one-time success rate of ECMO pipeline

Yongxia Gao, China

Predictors of complications related to venoarterial extracorporeal membrane oxygenation in adults: A retrospective cohort study

Gislaine Rodrigues Nakasato, Brazil

Review of a clinical case: Patient with massive Pulmonary Thromboembolism (PTE), Pulmonary Arterial Hypertension (PAH) and cardiogenic shock (CS)

Almudena Mateos Dávila, Spain

ECMO specialist role in an 'Out-of-Protocol' scenario

Ana Santos, United Kingdom

ECMO therapy in Spain

Carlos Camacho, Spain

A five-year observational data analysis of sedation and analgesic requirements for neonatal and paediatric patients supported on ECMO for respiratory failure >7days

Lynn Pereira, United Kingdom

Standardizing the delivery of ECMO across a large, academic medical center

Monika Cardona, United States

OP-10

Nurse Moderated Abstract Session Kiosk 10

Moderation: Jo-Anne Fowles, United Kingdom;
Chirine Mossadegh, France

Nursing monitoring: EndTidal CO2 to monitor cardiac output in VA ECMO and intra aortic balloon pump support

Riccardo Cusmà Piccione, Italy

Nursing dressing to reduce microcirculation's hypoperfusion in peripheral VA ECMO: What is changed from Prague?

Riccardo Cusmà Piccione, Italy

ICU nurses and ECPR

Sean Scott, Australia

Nurse-led regular repositioning for stable ECMO patients

Ester Franco Sanda, United Kingdom

Emergent central venoarterial ECMO insertion in the intensive care unit.

The nurses perspective

Elena Querol Vallés, Spain

New register in nursing planning care: The extracorporeal membrane oxygenation vascular device

Cecilia Cuzco, Spain

The strategic roles of nursing during ECPR: Pearls of wisdom from the early phases of operation of a multidisciplinary "Code ECMO" team

Patricia Alfaro, Canada

The move from an open care environment to a single patient room - ECMO nurses perception

Gunilla Frisén, Sweden

Nursing care of VA ECMO patients with central cannulation

David Tellez, Spain

Emergent venoarterial ECMO insertion outside the intensive care unit (ICU). The ICU nurse's role

Anna Farrús, Spain

Nurse-led proning is safe in VV ECMO patients

Andrew Claxton, United Kingdom

ELSO Red Book Education

Monika Cardona, United States

From 19:15

Networking reception in the exhibition area, all congress delegates are invited to join.

Main Program | Friday, 12 April 2019

08:00 - 08:45
Room 5

Call for pediatrics cases

Moderation: Gail Annich, Canada; Chris Harvey, United Kingdom; Aparna Hoskote, United Kingdom

Extracorporeal cardiopulmonary resuscitation case study following cardiac strangulation

Deirdre O'Hara, Ireland

Extracorporeal life support: ECMO VV with flow under successful use of Cardiohelp® in an 8-month-old patient

Belinda Gonzales, Peru

Novel management of aortic incompetence during Left Ventricular Assistance Device (LVAD) as a bridge to transplantation

Javier Alvarez Gavela, United Kingdom

Elective use of ECMO for pheochromocytoma removal surgery

Maria Maria Mendes, Portugal

Role of Extra-Corporeal Life Support (ECLS) in thrombotic obstruction of prosthetic mitral valve: A case report

Naga Kishore Puppala, United Kingdom

Case report of a good outcome with early surgery and VA-ECMO support for endocarditis

Vanessa Stanley, United Kingdom

A tragic case with a public health message

Shirley Nolan, United Kingdom

08:00 - 08:45

Industry Sponsored Breakfast Symposium, please see page 43 for further details

08:00 - 08:45
Room 4

The role of the perfusionist in ICU

Moderation: Antonella Degani, Italy; Alicia Pastor, Spain

Hybrid ECMO Modes: What's for?

Luis Pinto, Portugal

Pro: We need perfusionist in the ICU

Leen Vercaemst, Belgium

Con: We need perfusionist in the ICU

Lars Mikael Broman, Sweden

08:00 - 11:45
Room 2

Hemodynamics workshop with Harvi

Moderation: Marc Dickstein, United States
Use of own laptop is recommended.

09:00 - 10:30
Auditorium

Cardiogenic shock after acute myocardial infarction

Moderation: Alessandro Sionis, Spain; Federico Pappalardo, Italy

Optimal treatment before considering mechanical support

Federico Pappalardo, Italy

Which assistance:

Right time, right way, right patient

Kiran Shekar, Australia

Bridge to candidacy:

Optimize on VA-ECMO or temporary VAD?

Jan Belohlavek, Czech Republic

LV overload on ECMO: What are the options?

Nicolas Bréchet, France

Successful weaning from VA-ECMO: How to make sure to get off?

Dirk Donker, Netherlands

09:00 - 10:30
Room 6 / 8

Mechanical ventilation on ECMO

Moderation: Nicholas Barrett, United Kingdom; Christian Karagiannidis, Germany

Why reducing mechanical ventilation intensity?

Alain Combes, France

What are the current practices?

Daniel Brodie, United States

The good and the bad of the PEEP

Fernando Suárez-Sipmann, Spain

What is S-ILI?

Antonio Pesenti, Italy

Proning on ECMO

Matthieu Schmidt, France

session color codes: please see page 9

Main Program | Friday, 12 April 2019

09:00 - 10:30
Room 5

State of the art: ECMO:

Where are we now?

Moderation: Joan Balcells, Spain;
Robert Bartlett, United States;
Carl Davis, United Kingdom

Neonatal ECMO in current era: Patient selection and outcomes

Nathalie Rintoul, United States

Congenital diaphragmatic hernia: The Mannheim Success Story

Tomas Schaible, Germany

Cardiac ECMO:

How can we improve outcomes?

Katherine Brown, United Kingdom

Advances in cannulation techniques - percutaneous cannulation

Bjorn Frenckner, Sweden

ECMO to VAD journey - Berlin heart life story

Brigitte Stiller, Germany

09:00 - 10:30
Room 3

When ECMO is not enough (Translation to Spanish provided)

Moderation: Ann Alexanderson, Sweden;
Kathleen Daly, United Kingdom

ECCO2R indications

Chirine Mossadegh, France

Proning on VV-ECMO

Sabine Valera, France

Role of intra aortic balloon pump

Alicia Pastor, Spain

Switch to LVAD

Jo-Anne Fowles, United Kingdom

The impella family

Raphael Morfin, France

09:00 - 10:30
Room 4

ECMO 3.0

Moderation: Luis Pinto, Portugal;
Leen Vercaemst, Belgium

Development of new membranes and pumps

Antonella Degani, Italy

The role of the perfusionist during organ donation

Karlien Degezelle, Belgium

The key role of simulation to improve safety

Maite Mata, Spain

Role of echocardiography in routine ECMO monitoring

Martin Balik, Czech Republic

Key notions of drugs pharmacokinetics on ECMO

Velia Antonini, Italy

09:00 - 10:00

**Educational Corner program,
please see details at page 29**

10:30 - 11:00

Coffee break in the exhibition area

11:00 - 11:45
Auditorium

Ethic in ECMO

Moderation: Daniel Brodie, United States;
Aparna Hoskote, United Kingdom

Pro: ECMO withdrawing is preferable to ECMO withholding

Nicholas Barrett, United Kingdom

Con: ECMO withdrawing is preferable to ECMO withholding

Alain Vuylsteke, United Kingdom

No recovery, no hope of transplant: Pediatric view on therapy limitation

Peter Roeleveld, Netherlands

Main Program | Friday, 12 April 2019

11:00 - 11:45
Room 6 / 8

VA-ECMO – after cardiac surgery

Moderation: Xiangdong Guan, China; Elena Sandoval, Spain

Post-cardiotomy pump failure: Epidemiology and outcomes

Roberto Lorusso, Netherlands

Post-cardiotomy VA-ECMO: Surgical techniques and considerations

Felix Hennig, Germany

ECMO for graft dysfunction after heart transplant

Alessandro Sionis, Spain

11:00 - 11:45
Room 5

ECMO for myocardial failure

Moderation: Gail Annich, Canada; Mark Davidson, United Kingdom; Matteo Di Nardo, Italy

The role of ECMO in heart failure

Jonathan Smith, United Kingdom

Pro: Open chest cannulation for overwhelming sepsis

Joanne Starr, United States

Con: Open chest cannulation for overwhelming sepsis

Tim Jones, United Kingdom

11:00 - 11:45
Room 3

ECMO complications: Interactive session (Translation to Spanish provided)

Moderation: Santiago Montero, Spain; Mark Ogino, United States

Anticoagulation management

Kathleen Daly, United Kingdom

Limb ischemia

Jacqueline Janssen, Netherlands

Flow variations

Rocio Agliati, Chile

11:00 - 11:45
Room 4

Physics of the ECMO

Moderation: Velia Antonini, Italy; Maite Mata, Spain

Determinants of oxygenation and decarboxylation

Thomas Staudinger, Austria

How do I choose my cannula?

Leen Vercaemst, Belgium

Can we finally abandon roller pumps?

Emmanuel Devolder, Belgium

11:00 - 12:00

Educational Corner program, please see details at page 29

12:00 - 13:30

Industry symposia, please see page 43 for further details

12:00 - 13:00

Meet the poster authors

13:15 - 14:15

Educational Corner program, please see details at page 29

13:45 - 14:30
Auditorium

VV-ECMO: Future challenges

Moderation: Thomas Bein, Germany; Bjorn Frenckner, Sweden

ECMO VV without mechanical ventilation for ARDS?

Roberto Roncon-Albuquerque, Portugal

Early physical rehabilitation for all?

Alain Vuylsteke, United Kingdom

Good long-term outcome?

Steffen Weber-Carstens, Germany

Main Program | Friday, 12 April 2019

13:45 - 14:30
Room 6 / 8

Adjuvant cardiac mechanical support

Moderation: Santiago Montero, Spain;
Christian Karagiannidis, Germany

IABP – when to consider?

Xiaotong Hou, China

Right ventricle mechanical support

Christian Karagiannidis, Germany

Impella – when to consider?

Guillaume Lebreton, France

13:45 - 14:30
Room 5

Pediatric respiratory ECMO

Moderation: Pierre-Louis Leger, France;
Tomas Schaible, Germany; Susana Segura, Spain

Long term pediatric ECMO runs

Gail Annich, Canada

Spontaneous breathing during ECMO: Pro & Con

Matteo Di Nardo, Italy

Physical therapy and rehabilitation to aid recovery

Emma Shkurka, United Kingdom

13:45 - 14:30
Room 3

We need nurses ECMO specialist a pro/con nurse session

(Translation to Spanish provided)

Moderation: Kathleen Daly, United Kingdom;
Alicia Pastor, Spain

Pro: We need ECMO nurses

Jo-Anne Fowles, United Kingdom

Con: We need ECMO nurses

Chirine Mossadegh, France

Panel discussion

13:45 - 14:30
Room 4

Latest from the lab...

Moderation: Jonathan Millar, Ireland;
John Fraser, Australia

Year in review in experimental ECMO

John Fraser, Australia

How to design the optimal ECMO pump?

Sascha Gross-Hardt, Germany

Very low resistance oxygenators and beyond

Jutta Arens, Germany

14:30 - 15:30
**Educational Corner program,
please see details at page 29**

14:45 - 15:30
Auditorium

Improving outcome on VA-ECMO

Moderation: Martin Balik, Czech Republic;
Nicolas Bréchet, France

Percutaneous VA for everyone

Guillaume Lebreton, France

How to deal with Harlequin syndrome?

Lars Mikael Broman, Sweden

Mechanical ventilation during VA-ECMO: Should we be concerned?

Santiago Montero, Spain

14:45 - 15:30
Room 6 / 8

Neurological complications on ECMO

Moderation: Robert Bartlett, United States; Antonio
Pesenti, Italy

Incidence and major determinants

Roberto Lorusso, Netherlands

Pro: Desaturation on VV-ECMO does not matter

Kenneth Palmer, Sweden

Con: Desaturation on VV-ECMO does not matter

Antonio Arcadipane, Italy

Main Program | Friday, 12 April 2019

 **14:45 - 15:30**
Room 5

Multidisciplinary education on ECMO

Moderation: Chris Harvey, United Kingdom;
Lakshmi Raman, United States;
Nathalie Rintoul, United States

Multidisciplinary simulation training – does it improve outcomes?

Mark Ogino, United States

Education and simulation for mobile ECMO

Ibrahim M. Fawzy, Qatar

The role of the wet lab

Mirjana Cvetkovic, United Kingdom

ELSO guidelines: Working towards minimum standards globally?

Lakshmi Raman, United States

 **14:45 - 15:30**
Room 3

Ethic in ECMO (Translation to Spanish provided)

Moderation: Joan Balcells, Spain;
Maura O'Callaghan, United Kingdom

When and how to stop ECMO?

Steffen Weber-Carstens, Germany

End of life and awake patients

Ann Alexanderson, Sweden

Mitigating ECMO expectations with ethicists at bedside

Matteo Di Nardo, Italy

 **14:45 - 15:30**
Room 4

How to reduce ECMO-induced inflammation?

Moderation: Lisa PrahL Wittberg, Sweden;
Brijesh Patel, United Kingdom

Pathophysiology of inflammatory response to ECMO

John Fraser, Australia

What went wrong with mesenchymal stem cells in ECMO?

Jonathan Millar, Ireland

Biohybrid oxygenators: Technical advances

Stefan Jockenhövel, Germany

15:30 - 16:00
Coffee break in the exhibition area

 **16:00 - 16:45**
Auditorium

ECMO – challenging indications

Moderation: Alain Combes, France;
Simon Finney, United Kingdom

High risk pulmonary embolism

Luigi Camporota, United Kingdom

Lung transplant

Jordi Riera, Spain

Severe septic shock

Nicolas Bréchet, France

 **16:00 - 16:45**
Room 6 / 8

VA-ECMO drawback

Moderation: Thomas Mueller, Germany;
Matthieu Schmidt, France

Cerebral function monitoring on ECMO

Konstantin A. Popugaev, Russian Federation

Anterograde perfusion canula: Risks and benefits

Sandeep Dewan, India

Critical care in China: ECMO perspective, current and future

Xiangdong Guan, China

 **16:00 - 16:45**
Room 5

ECMO organization and care delivery

Moderation: Aparna Hoskote, United Kingdom;
Maura O'Callaghan, United Kingdom;
Mark Ogino, United States

Pro: ECMO care should be centralized

Mark Davidson, United Kingdom

Con: ECMO care should be centralized

Pierre-Louis Leger, France

Looking after the family of patients on ECMO

Jo Wray, United Kingdom

session color codes: please see page 9

Main Program | Friday, 12 April 2019

16:00 - 16:45
Room 3

Bedside care (Translation to Spanish provided)

Moderation: Ann Alexanderson, Sweden;
Justyna Swol, Germany

VA-ECMO management

Alicia Pastor, Spain

Nurse role during E-CPR

Rocio Agliati, Chile

Rehabilitation/mobilisation on ECMO

Kathleen Daly, United Kingdom

16:00 - 16:45
Room 4

From computation of flow dynamics to the animal lab

Moderation: Jan Bělohávek, Czech Republic;
John Fraser, Australia

Drawbacks and Opportunities of computational fluid dynamics to design new systems

Jutta Arens, Germany

Optical flow visualization

Lisa Prah Wittberg, Sweden

Opportunities and limitations of animal ECMO models

Kiran Shekar, Australia

16:00 - 17:00

**Educational Corner program,
please see details at page 29**

17:00 - 17:45
Auditorium

ECMO for hematological patients

Moderation: Kenneth Palmer, Sweden;
Thomas Staudinger, Austria

Case(s) presentation(s)

Martin Balik, Czech Republic

Pro: Should we propose ECMO for hematological patients?

Peter Schellongowski, Austria

Con: Should we propose ECMO for hematological patients?

Thomas Mueller, Germany

17:00 - 17:45
Room 6 / 8

Coagulation on ECMO

Moderation: Gennaro Martucci, Italy; Matthieu
Schmidt, France

What are the anticoagulation targets for low-flow and high-flow ECMO?

Dirk Donker, Netherlands

Platelets function

Marco Ranucci, Italy

ECMO in trauma: Still controversial?

Justyna Swol, Germany

17:00 - 17:45
Room 5

Mobile ECMO

Moderation: Lars Mikael Broman, Sweden;
Uri Pollak, Israel; Karlien Degezelle, Belgium

Developing a mobile ECMO team

Chris Harvey, United Kingdom

Minimizing risk in intra-hospital transport

Susana Segura, Spain

Air ECMO transport

Mark Davidson, United Kingdom

17:00 - 17:45
Room 3

Staffing models

(Translation to Spanish provided)

Moderation: Jo-Anne Fowles, United Kingdom;
Chirine Mossadegh, France

Who do what in a mobile team?

Ann Alexanderson, Sweden

Round table

Ann Alexanderson, Sweden;
Mark Ogino, United States;
Sabine Valera, France;
Leen Vercaemst, Belgium

17:00 - 17:45
Room 4

VA-ECMO and LV distension: Understanding the underlying physiology with computer simulation

Moderation: Marc Dickstein, United States

Main Program | Saturday, 13 April 2019

08:00 - 09:30
Room 5

Complications on ECMO - let's focus on anticipation and prevention

Moderation: Joan Balcells, Spain; Lakshmi Raman, United States; Malaika Mendonca, Switzerland

Neuromonitoring, neuroprotection and neurodevelopmental follow-up

Aparna Hoskote, United Kingdom

ECMO after CPR: Multi-organ failure

Sylvia Belda, Spain

Walking the tight rope: Preventing bleeding and thrombosis

Uri Pollak, Israel

Mechanical complications: Prevention, detection and management

Francisco Abecasis, Portugal

Acute kidney injury

Peter Roeleveld, Netherlands

08:00 - 08:45
Industry Sponsored Breakfast Symposium, please see page 43 for further details

08:45 - 10:15
Auditorium

ECCO2R in 2019

Moderation: Dany McCaulay, Ireland; Christian Karagiannidis, Germany

Determinants of CO2 removal efficacy

Christian Karagiannidis, Germany

Electrodialysis applied to ECCO2R

Antonio Pesenti, Italy

Limitation of the current pump technology

Sascha Gross-Hardt, Germany

Rational for using ECCO2R in ARDS

Dany Mc Caulay, Ireland

Rational for using ECCO2R in COPD

Marco Ranieri, Italy

08:45 - 10:15
Room 6 / 8

What it takes on top of technical skills - ethical decision making!

Moderation: Chirine Mossadegh, France; Steffen Weber-Carstens, Germany

Spiritual and palliative care providers

Daniel Brodie, United States

Ethical practices variations?

Matthieu Schmidt, France

Moral distress in ECMO caregivers

Sabine Valera, France

Clinical ethics consultation

Steffen Weber-Carstens, Germany

We need institutional frameworks for ethical decision-making!

Thomas Bein, Germany

09:00 - 10:00
Educational Corner program, please see details at page 29

09:30 - 10:15
Room 5

Cardiac ECMO

Moderation: Aparna Hoskote, United Kingdom; Sylvia Belda, Spain; Peter Roeleveld, Netherlands

ECMO in pre and post cardiac surgery

Tim Jones, United Kingdom

ECLS in right heart failure

Tomas Schaible, Germany

New circulatory support devices

Brigitte Stiller, Germany

10:00 - 10:30
Coffee break in the exhibition area

10:30 - 11:15
Auditorium

Anticoagulation on ECMO

Moderation: John Fraser, Australia; Max Malferttheiner, Germany

Point of care coagulation testing

Marco Ranucci, Italy

Heparin induced thrombocytopenia on ECMO

Brijesh Patel, United Kingdom

Alternative anticoagulation regimes

Gennaro Martucci, Italy

10:30 - 11:15
Room 6 / 8

The top ranked adults abstract selection

Moderation: Nicholas Barrett, United Kingdom; Alain Combes, France

eCPR with international transport, bridged to salvage lung transplant in a young woman with decompensated right ventricular failure from severe pulmonary arterial hypertension attributable to congenital heart disease

Kali Romano, Canada

Effect of tracheostomy on sedation, ventilation and ECMO adjustments in patients with acute respiratory failure on veno-venous extracorporeal membrane oxygenation: A 10-year observational analysis

Christoph Fisser, Germany

What is optimal nutrition delivery for patients on VV ECMO?

Stacy Pelekhaty, United States

NSE progression in eCPR patients - a relevant consideration for prognosis

Daniele Camboni, Germany

Decannulation after VA ECMO with a new vascular closure device

Lukasz Kmiec, Germany

The hemodynamic impact of different left ventricular unloading strategies during VA-ECLS, a systematic literature study and meta-analysis

Christiaan Lucas Meuwese, Netherlands

LV venting techniques on top of veno-arterial ECMO in porcine cardiogenic shock model

Paolo Meani, Netherlands (winner EURO ELSO Research Grant 2017)

10:30 - 11:15
Room 5

The top ranked PED abstract selection

Moderation: Gail Annich, Canada; Joan Balcells, Spain; Dick Tibboel, Netherlands

Neurologic events and neuro imaging in neonates supported with extracorporeal membrane oxygenation (ECMO) at the Great Ormond Street Hospital (UK), does MRI help?

Antonio Perez, United Kingdom

A call for a standardized multi-disciplinary follow up framework for pediatric extracorporeal life support(ECLS) survivors: Longitudinal follow upto 17 years

Philip Knight, Canada

International survey of neuromonitoring and neurodevelopmental outcome in patients supported on ECMO

Mirjana Cvetkovic, United Kingdom

Endogenous heparin-like activity in children on extracorporeal circulatory support devices anticoagulated with bivalirudin

Jun Teruya, United States

Impact of implementation of an ECMO anticoagulation standardized clinical assessment and management plan on blood product use, bleeding, and clotting events in children supported with VA ECMO

Peta Alexander, United States

Utilizing deep learning neural networks to predict neurological injury in pediatric extracorporeal membrane oxygenation (ECMO) patients

Neel Shah, United States

10:30 - 11:30
Educational Corner program,
please see details at page 29

Main Program | Saturday, 13 April 2019

11:30 - 12:15

Auditorium

Additional procedures on ECMO

Moderation: Antonio Arcadipane, Italy; Nicholas Barrett, United Kingdom

How to integrate RRT in ECMO circuits?

Max Malfertheiner, Germany

How to make a safe tracheotomy on ECMO?

Bjorn Frenckner, Sweden

Nutrition on ECMO: Should we be concerned?

Danielle Bear, United Kingdom

11:30 - 12:15

Room 6 / 8

ECMO - in exceptional situations

Moderation: Luigi Camporota, United Kingdom; Ibrahim M. Fawzy, Qatar

ECMO for intoxications

Konstanty Szuldrzynski, Poland

ECMO for accidental hypothermia

Martin Balik, Czech Republic

Organ donation facilitated by ECMO

Constantino Fondevilla, Spain

11:30 - 12:15

Room 5

ECMO: Looking to the future

Moderation: Francisco Abecasis, Portugal; Matteo Di Nardo, Italy

Immunotherapies and gene therapy

Dick Tibboel, Netherlands

ECMO bridge to lung transplant: Is it a reality?

Joan Balcells, Spain

Balancing rising costs with quality of life years gained

Katherine Brown, United Kingdom

12:15 - 13:00

Auditorium

Closing Ceremony, Young Investigator Awards and invitation next edition

Moderation: Nicholas Barrett, United Kingdom; Alain Combes, France

session color codes: please see page 9

Educational Corners

Simulation-based learning is frequently used in medical education and skills training, especially related to complex technologies like extracorporeal systems.

Educational Corner during EuroELSO conference provides a near authentic experience and enhanced learning. EduCorner simulations rely on scenarios similar to clinical practice in controlled environment without any negative consequences of an error.

The Educational Corners are limited to 20 participants per sessions and pre-registration is mandatory. Please check the website for further details www.euroelso-congress.com/educational-corner

Title	Date	Time	Room	Trainer
The Thrills and Spills of delivering hemofiltration and plasma exchange to your ECMO patient	12 April 2019	11:00 - 12:00 14:30 - 15:30	Room 7	Margaret Farley Jo-Anne Fowles
	13 April 2019	09:00 - 10:00 10:30 - 11:30		
Circuit Factors: Pitfalls & Challenges of Hybrid ECLS	12 April 2019	13:15 - 14:15 14:30 - 15:30 16:00 - 17:00 17:00 - 18:00	Room 2	Emmanuel Devolder Tim Jones Leen Vercaemst
ECLS in OHCA and IHCA - Simulation with Cannulation Training	12 April 2019	09:00 - 10:00 11:00 - 12:00 13:15 - 14:15 14:30 - 15:30	Room 1	Matthias Baumgärtel Justyna Swol Karin Buttler Kathrin Emmrich Steffen Nietzold
	13 April 2019	09:00 - 10:00		
Troubleshooting on paediatric ECMO	12 April 2019	09:00 - 10:00 11:00 - 12:00 13:15 - 14:15 16:00 - 17:00	Room VIP	Mirjana Cvetkovic Maura O'Callaghan
Fisiología del ECMO (Spanish language only)	10 April 2019	13:00 - 14:00 14:00 - 15:00 15:30 - 16:30 16:30 - 17:30	Room 3	Rocia Agliati Nicolette Van Sint Jan



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Invited Faculty (as per March 2019, subject to change)

A

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Agliati, Rocio, Chile
Alexanderson, Ann, Sweden
Annich, Gail, Canada
Antonini, Velia, Italy
Arcadipane, Antonio, Italy
Arens, Jutta, Germany
Ariza, Albert, Spain

B

Balcells, Joan, Spain
Balik, Martin, Czech Republic
Barrett, Nicholas, United Kingdom
Bartlett, Robert, United States
Bear, Danielle, United Kingdom
Bein, Thomas, Germany
Belda, Sylvia, Spain
Bělohávek, Jan, Czech Republic
Bottari, Gabriella, Italy
Bréchet, Nicolas, France
Brodie, Daniel, United States
Brogan, Thomas, United States
Broman, Lars Mikael, Sweden
Brown, Katherine, United Kingdom

C

Camporota, Luigi, United Kingdom
Cavallaro, Giacomo, Italy
Chen, Yih-Sharnq, Taiwan
Combes, Alain, France
Cvetkovic, Mirjana, United Kingdom

D

Daly, Kathleen, United Kingdom
Davidson, Mark, United Kingdom
Davis, Carl, United Kingdom
De Luca, Daniele, France
Degani, Antonella, Italy
Degezelle, Karlien, Belgium
Devolder, Emmanuel, Belgium
Dewan, Sandeep, India
Di Nardo, Matteo, Italy
Dickstein, Marc, United States
Donker, Dirk, Netherlands

F

Farley, Margaret, United Kingdom
Fawzy, Ibrahim M., Qatar
Finney, Simon, United Kingdom
Fondevilla, Constantino, Spain
Fowles, Jo-Anne, United Kingdom
Fraser, John, Australia
Frenckner, Bjorn, Sweden

G

Gershlick, Tony, United Kingdom
Gross-Hardt, Sascha, Germany
Guan, Xiangdong, China

H

Harvey, Chris, United Kingdom
Hennig, Felix, Germany
Hoskote, Aparna, United Kingdom
Hou, Xiaotong, China

J

Janssen, Jacqueline, Netherlands
Jockenhövel, Stefan, Germany
Jones, Tim, United Kingdom

K

Karagiannidis, Christian, Germany
Kneyber, Martin, Netherlands

L

Lamhaut, Lionel, France
Lebreton, Guillaume, France
Leger, Pierre-Louis, France
Lorusso, Roberto, Netherlands

M

Malfertheiner, Max, Germany
Martucci, Gennaro, Italy
Mata, Maite, Spain
McCaulay, Dany, Ireland
Meani, Paolo, Netherlands
Mendonca, Malaika, Switzerland
Millar, Jonathan, Ireland
Montero, Santiago, Spain
Morfin, Raphaele, France
Moscatelli, Andrea, Italy
Mossadegh, Chirine, France
Mueller, Thomas, Germany

O

O'Callaghan, Maura, United Kingdom

Ogino, Mark, United States

P

Palmer, Kenneth, Sweden

Pappalardo, Federico, Italy

Pastor, Alicia, Spain

Patel, Brijesh, United Kingdom

Peek, Giles, United States

Pesenti, Antonio, Italy

Pinto, Luis, Portugal

Pokorna, Pavla, Czech Republic

Pollak, Uri, Israel

Pons, Marti, Spain

Popugaev, Konstantin A.,
Russian Federation

Prahl Wittberg, Lisa, Sweden

R

Raman, Lakshmi, United States

Ranieri, Marco, Italy

Ranucci, Marco, Italy

Reis Miranda, Dinis, Netherlands

Riera, Jordi, Spain

Rimensberger, Peter, Switzerland

Rintoul, Nathalie, United States

Roeleveld, Peter, Netherlands

Roncon-Albuquerque, Roberto, Portugal

S

Sandoval, Elena, Spain

Schaible, Thomas, Germany

Schellongowski, Peter, Austria

Schmidt, Matthieu, France

Segura, Susana, Spain

Shekar, Kiran, Australia

Shkurka, Emma, United Kingdom

Sionis, Alessandro, Spain

Smith, Jonathan, United Kingdom

Starr, Joanne, United States

Staudinger, Thomas, Austria

Stiller, Brigitte, Germany

Suárez-Sipmann, Fernando, Spain

Swol, Justyna, Germany

Szuldrzynski, Konstanty, Poland

T

Tibboel, Dick, Netherlands

V

Valera, Sabine, France

Van Sint Jan, Nicolette, Chile

Vercaemst, Leen, Belgium

Vuylsteke, Alain, United Kingdom

W

Weber-Carstens, Steffen, Germany

Wray, Jo, United Kingdom



Information for Speakers

Speakers' Preview Room

The speakers' preview room is located on level 0 next to the exhibition area. Speakers are asked to hand in their CD ROM or USB stick, containing the PowerPoint Format 97-2007, 2010, 2013 or 2016 in ppt or pptx format, or Adobe Acrobat Reader (pdf) to guarantee slides will open successfully on an on-site PC. Prepare your presentation in 16:9 or 4:3 format (screens are in 16:9 format).

Speakers are asked to contact the speakers' preview room preferably one day before their presentation, at the latest 90 minutes prior to the presentation.

Several PC working stations are provided in the speakers' preview room where speakers can also work on their charts. Technical staff will be glad to assist.

The presentation will be transferred to the central congress server and will be available afterwards on a special congress notebook in the hall of presentation. Use of own technical equipment (laptop, MacBook) is not allowed and possible.

Opening Hours of the Speakers' Preview Room

Date	Time
Wednesday, 10 April 2019	11:30 - 17:30
Thursday, 11 April 2019	07:30 - 18:00
Friday, 12 April 2019	07:30 - 18:00
Saturday, 13 April 2019	07:30 - 11:30

Poster Sessions

Electronic posters are displayed at the EuroELSO 2019 congress. All ePoster are available for viewing at ePoster kiosks on level 0 - ground floor next to the exhibition.

Schedule of Poster Sessions

Moderated posters - Thursday, 11 April 2019 18:15 - 19:15

Poster authors are expected to present their poster and answer questions by the moderator as well as the audience at their dedicated kiosk. Allocation of moderator poster please see page 14.

Posters - Friday, 12 April 2019 12:00 - 13:00

Meet the poster authors during the lunch break. Poster authors are requested to stay at their dedicated kiosk. Allocation of posters according to the website and information chart.


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LUNCH SYMPOSIUM MODERN PARADIGMS OF CANNULATION

EuroELSO

Friday, April 12th 2019

From 12:00 pm to 01:00 pm

PALAU DE CONGRESSOS DE BARCELONA

Avinguda de la Reina Maria Cristina, s/n
08004 Barcelona, SPAIN

MEETING ROOM 6 · LEVEL 2

General Congress Information

Registration

All congress materials and documents will be available at the congress registration counter located ground floor at the Palau de Congressos de Barcelona, Fira Montjuïc, Av. Reina Maria Cristina s/n 08004 Barcelona, Spain.

Registration Counter Opening Hours

Date	Time
Wednesday, 10 April 2019	11:30 - 17:30
Thursday, 11 April 2019	07:30 - 19:30
Friday, 12 April 2019	07:30 - 18:00
Saturday, 13 April 2019	07:30 - 13.00

During these opening hours, the congress registration counter can be reached at: +34 93 2333222

Registration Fees

Registration Types	On-site Price
Physician – ELSO Member	€600
Nurse, Perfusionist – ELSO Member	€350
Physician – Non Member	€700
Nurse, Perfusionist – Non Member	€400
Student	€240

Pre-Congress Fee

Registration Types	On-site Price
Physician – ELSO Member	€295
Nurse, Perfusionist – ELSO Member	€245
Physician – Non Member	€325
Nurse, Perfusionist – Non Member	€275
Student	€120

General Congress Information

The registration fee for delegates includes:

- Access to the Scientific Sessions
- Access to the Exhibition
- Free copy of the Perfusion Abstract book (subject to availability)
- Certificate of Attendance
- Networking Reception on Thursday, 11 April 2019

On-site Registration

On-site registration will be processed on a first come, first served basis. Priority will be given to pre-registered delegates.

Self-print

Please use the barcode, which was sent to you via email, to print out your name badge at the provided printing stations.

Name badge

All participants are requested to wear their name badges at all times during the congress.

Colour

Dark Blue	Steering Committee, Faculty
Blue	Physician, Student
Green	Perfusionist, Nurse
Grey	Exhibitor
Red	Organizer

CME Credits

Certification

The 8th EuroELSO Congress is accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) to provide the following CME activity for medical specialists.

The 8th EuroELSO Congress is designated for a maximum of (or for up to) 20 hours of European external CME credits.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credits to AMA credits can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC® credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

The American Board of Cardiovascular Perfusion has granted 29,7 CEUs for this event.

Good to know

ART meets ECMO

Visit the 'ART meets ECMO - 30 Years of ELSO' exhibition on level 2 and receive your personal copy of the calendar.

Charging station mobile devices

Be welcomed at the EuroELSO charging lounge in the exhibition area for recharging your mobile devices.

Cloakroom

A cloakroom is available on level 1. You can also store your luggage there.

Coffee breaks

Coffee and tea is provided during the breaks in the exhibition area.

Congress Dinner at Xalet de Montjuic

Friday, 12 April 2019

Meet your colleagues, make new friends and network with other congress participants while enjoying dinner. The Xalet de Montjuic is located on the hill Montjuic with spectacular views over Barcelona. Enjoy excellent Mediterranean cuisine while Barcelona lies at your feet. Price per person EUR 95,00, incl. 3-course menu, beverages and entertainment. A few tickets are available at the registration counter on a first come - first served basis.

Currency

The official Spanish currency is Euro. Exchange of foreign currency is available at the airport, train station, at most hotels, banks and exchange offices.

Disclaimer

The organizers cannot accept liability for injuries or losses of whatever nature incurred by participants, nor for loss of or damage to their luggage and/or personal belongings.

Language

The official language of the 8th EuroELSO Congress is English. However, all participants are encouraged to join discussions regardless of their fluency in English, as the exchange of ideas and critical evaluation of presentation is the main purpose of the entire congress. Nursing block sessions will be translated from English to Spanish language.

Mobile phones

Participants are kindly requested to keep their mobile phones turned off while attending the scientific sessions.



Good to know

Networking Reception

Thursday, 11 April 2019 from 19:15 in the exhibition area

All registered congress participants are invited to attend. Drinks and light refreshments will be provided.

Personal insurance

We recommend that all participants take out a personal travel and health insurance for their trip.

Press

Journalists should bring their press ID and register at the congress registration counter.

Program changes

The organizers cannot assume liability for any changes in the program due to external unforeseen circumstances.

Recording

Cameras, video cameras or audio recording devices are not permitted in the session rooms. Any recording/documentation of sessions is strictly forbidden.

Safety

As in all major cities and congress venues, people should take care of their personal belongings. It is not advised to wear your congress badge outside the 8th EuroELSO Congress activities.

Please have your handbag, bag, backpack etc. ready for inspection by security officers while entering the congress venue.

Smoking policy

Smoking is not allowed at the venue; the meeting is a non-smoking event.

Visa

Spain is part of the European Schengen area. The entry formalities for Spain vary accordingly to the country of origin. A letter of invitation can be issued by the congress and registration office.

Wi-Fi

Complimentary Wi-Fi access is available in the Congress Centre.

Password: euroelso2019

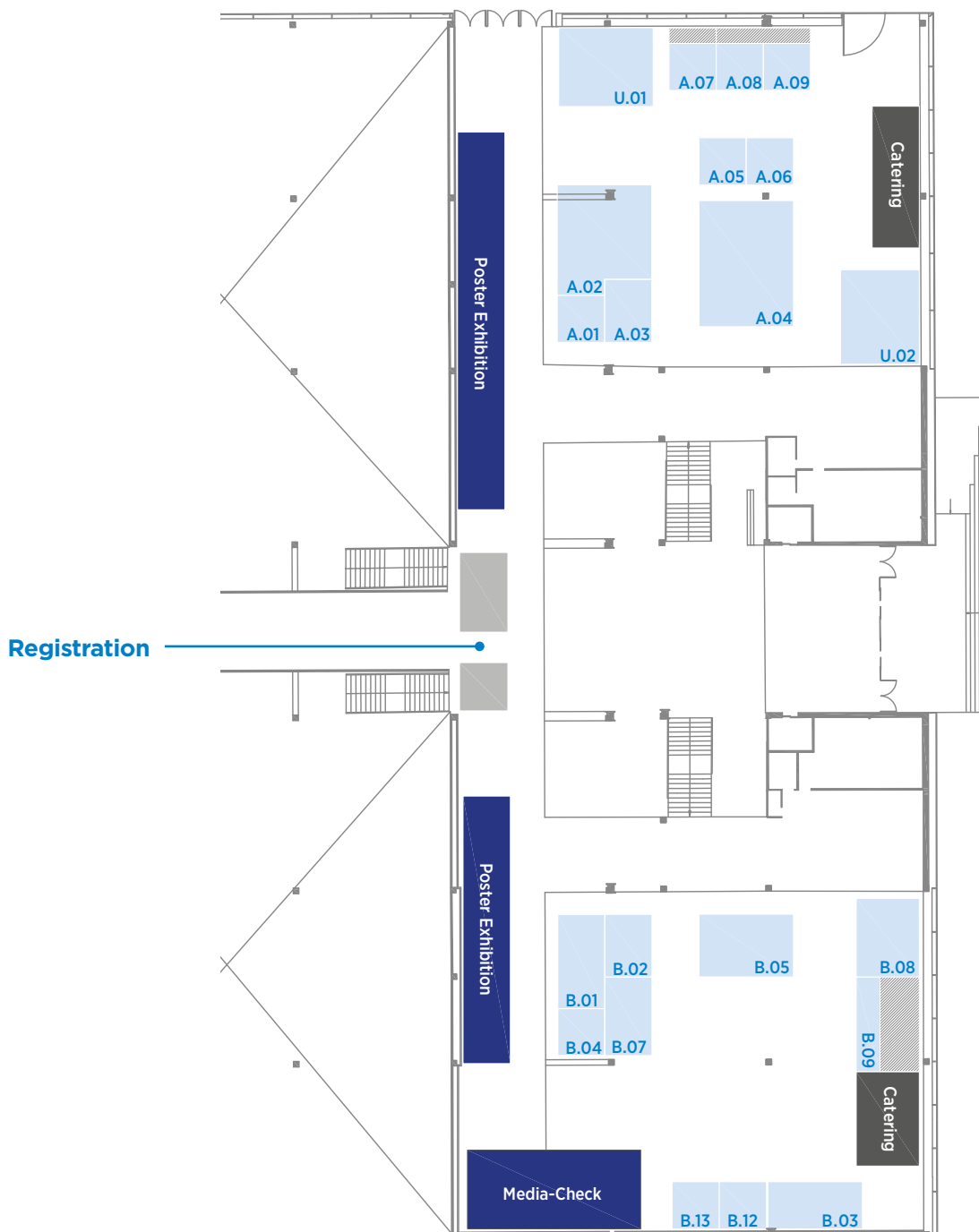


Industry / Exhibition

This event is supported, in part, by funding from industry. All support is managed in strict accordance with CME/CPD accreditation criteria and standards for commercial support.

This section contains information that is promotional in nature, distinct from the scientific/educational elements of the main CME/CPD event.

Exhibition Floor Plan



Sponsor and Exhibitor Overview

Sponsors

We kindly thank all our sponsors for their support! Sponsor names are in alphabetical order.

CytoSorbents
WORKING TO SAVE LIVES

LivaNova
Health innovation that matters

stryker

GETINGE 

Medtronic
Further, Together

XENIOS

Exhibitor Overview

Company	Booth No.	Training Unit
Biomed Simulation Inc.	B.07	
Chalice Medical Ltd.	B.03	
CytoSorbents Europe GmbH	A.01	U.01
EUROSETS	B.08	
Extracorporeal Life Support Organization (ELSO)	A.09	
Getinge	A.04	U.02
Hemovent GmbH	A.06	
LivaNova	B.02	
Medical Simulator	B.13	
Medtronic International Trading Sàrl	A.03	
Mitsubishi Tanabe Pharma GmbH	B.04	
Nova Biomedical	A.08	
Spectrum Medical	A.02	
Stryker	B.05	
TCS-ECMO Congress	B.12	
TRANSONIC	A.07	
WISEPRESS	B.09	
XENIOS AG	B.01	
Zeon Medical Inc.	A.05	

Exhibition Opening Hours

Thursday, 11 April 2019	13:00 – 20:30
Friday, 12 April 2019	08:00 – 18:00
Saturday, 13 April 2019	08:00 – 13:00

Code of Transparency

Interplan publishes the conditions and the scope of the support provided by EFPIA member companies to the EuroELSO Congress on a voluntary basis. The publication will be carried out before and during the execution of the congress.

For the industry partners mentioned on page 41, we are herewith informing about their overall support within the framework of the EuroELSO Congress 2019.



We are pleased to inform you that the EuroELSO Congress 2019 is **compliant** in accordance with the principles and standards set out in the MedTech Europe Code of Ethical Business Practice.



THANK YOU to all our clients, partners, exhibitors, the many participants and our team without whom this anniversary would not have been possible.

50 Years Interplan 1969 - 2019

YESTERDAY



TODAY



TOMORROW



Corporate Sessions / Training Units

Training Units:

Visit the Training Units of our sponsors CytoSorbents and Getinge within the exhibition area and get updated on latest releases. Seats are limited on a first come – first served basis. Please check the website for further details: www.euroelso-congress.com/training-units

Topics:

Join the Getinge training village and our eCPR and ECMO dedicated hands on sessions and presentations:

eCPR simulation workshop/ eCPR in live

Evaluating and re-evaluating the patient on ECMO - Practical application

Cannulation trouble shooting advanced - The cannulas are in - now what

ECMO in combination with CytoSorb hemoadsorption – Tips and tricks for perfect use

Experiences from Switzerland

Rationale and indications for CytoSorb in ECMO patients

Experiences from Italy

CytoSorb setup in different ECMO systems

Friday, 12 April 2019

09:00 - 10:30

11:00 - 11:45

14:00 - 15:30

16:00 - 17:30

Saturday, 13 April 2019

08:30 - 10:00

10:30 - 12:00

Industry Sponsored Symposium

Title	Date	Time	Room
Medtronic ECLS Solutions, supported by an unrestricted grant from Medtronic	11 April 2019	12:15 - 13:45	Room 6
Organ perfusion in organ donor transplantation, supported by an unrestricted grant from Getinge	12 April 2019	08:00 - 08:45	Room 3
The Evolving Use of ECMO, supported by an unrestricted grant from Getinge	12 April 2019	12:00 - 13:30	Room 3
Modern Paradigms of Cannulation, supported by an unrestricted grant from LivaNova	12 April 2019	12:00 - 13:00	Room 6
Future Journey with Extra Corporeal CO ₂ Removal, supported by an unrestricted grant from XENIOS	12 April 2019	12:00 - 13:30	Room 5
Lung transplant patients requiring ECMO, supported by an unrestricted grant from Getinge	13 April 2019	08:00 - 08:45	Room 6

Industry Sponsored Workshop

Title	Date	Time	Room
High Performance CPR, supported by an unrestricted grant from Stryker	11 April 2019	12:15 - 13:30	Room 3

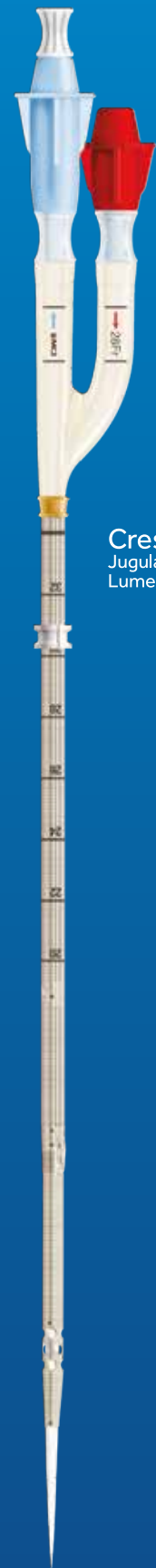
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This document is intended to provide information to an international audience outside of the US.



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